



GP 1645

PATENT

Our Docket: P-L 4752

IN THE UNITED STATES PATENT AND TRADEMARK OFFICEIn re Application of
Reed et al.

Serial No.: 09/864,921

Filed: May 23, 2001

For: CARD DOMAIN CONTAINING
POLYPEPTIDES, ENCODING NUCLEIC
ACIDS, AND METHODS OF USECommissioner for Patents
Washington, D.C. 20231

) Examiner: Unassigned

) Group Art Unit: 1645

I hereby certify that this correspondence is
being deposited with the United States
Postal Service as first class mail in an
envelope addressed to: Commissioner for Patents,
Washington, D.C. 20231, on December 5, 2001.By Melanie K. Webster
Melanie K. Webster, Reg. No. 45,201December 5, 2001
Date of SignatureINFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. § 1.97, enclosed are references relating to the above-identified application. For the convenience of the Examiner, these references are listed on the attached Form PTO-1449, and a copy of each is enclosed herewith.

It is respectfully requested that these references be considered in the examination of this application and that their consideration be made of written record in the application file.

No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any fee is required, authorization is hereby given to charge the amount of any such fee to Deposit Account No. 03-0370.

Respectfully submitted,

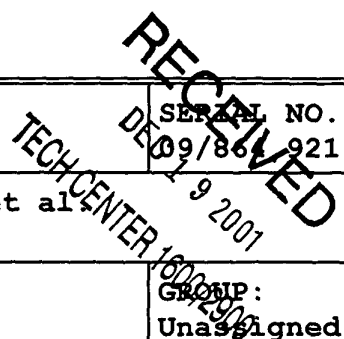
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	APPLICANT: Reed et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: May 23, 2001	GROUP: Unassigned

U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILI NG DATE
		5,223,409	06/29/93	Ladner et al.	435	69.7	03/0 1/91

FOREIGN PATENT DOCUMENTS

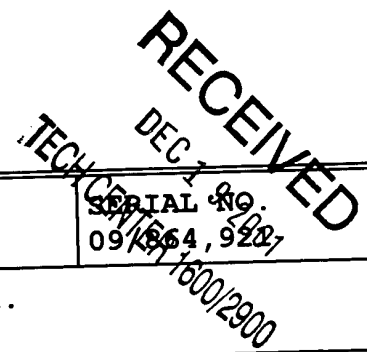
EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRAN SLAT ION (YES /NO)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

		Ahmad et al., "CRADD, a novel human apoptotic adaptor molecule for caspase-2, and FasL/tumor necrosis factor receptor-interacting protein RIP," <u>Cancer Res.</u> 57:615-619 (1997).
		Altschul et al., "Gapped Blast and PSI-Blast: a new generation of protein database search programs," <u>Nucleic Acids Res.</u> , 25:3389-3402 (1997).

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

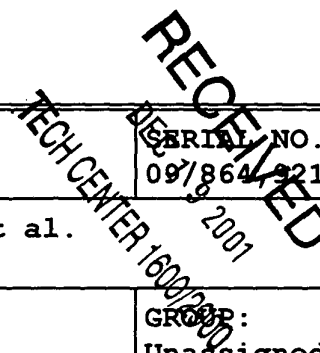


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	APPLICANT: Reed et al.	
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	Bertin et al., "Human CARD4 Protein is a Novel CED-4/Apaf-1 Cell Death Family Member that Activates NF-kB*," <u>J. Biol. Chem.</u> 274:12955-12958 (1999)..
	DiDonato et al., "A cytokine-responsive Ikb kinase that activates the transcription factor NF-kB," <u>Nature</u> 388:548-554 (1997).
	Ellerby et al., "Anti-cancer activity of targeted pro-apoptotic peptides," <u>Nature Med.</u> 5:1032-1038 (1999).
	Fletcher et al., "A synthetic inhibitor of interleukin-1 beta converting enzyme prevents endotoxin-induced interleukin-1 beta production <i>in vitro</i> and <i>in vivo</i> ," <u>J. Interferon Cytokine Res.</u> , 15:243-248 (1995).
	Gregoriadis, Liposome Technology, Vols. I to III, 2nd ed., CRC Press, Boca Raton FL (1993). (Table of contents only)
	Hofmann et al., "The CARD domain: a new apoptotic signalling [sic] motif," <u>Trends Biochem. Sci.</u> 22:155-156 (1997).
	Holinger et al., "Bak BH3 Peptides Antagonize Bcl-x _L Function and Induce Apoptosis through Cytochrome c-independent Activation of Caspases," <u>J. Biol. Chem.</u> 274:13298-13304 (1999).
	Inohara et al., "Nod1, an Apaf-1-like Activator of Caspase-9 and Nuclear Factor-kB," <u>J. Biol. Chem.</u> 274:14560-14567 (1999).
	Li et al., "Cytochrome c and dATP-Dependent Formation of Apaf-1/Caspase-9 Complex Initiates an Apoptotic Protease Cascade," <u>Cell</u> 91:479-489 (1997).
	Neufeld and Rubin, "The Drosophila <i>peanut</i> Gene Is Required for Cytokinesis and Encodes a Protein Similar to Yeast Putative Bud Neck Filament Proteins," <u>Cell</u> 77:371-379 (1994).

EXAMINER	DATE CONSIDERED
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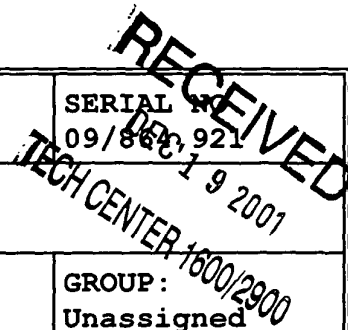


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	Ogura et al., "Nod2, a Nod1/Apaf-1 family member that is restricted to monocytes and activates NF- κ B", <u>J. of Biol. Chem.</u> 276 (7):4812-4818 (2001).
	Rano et al., "A combinatorial approach for determining protease specificities: application to interleukin-1 beta converting enzyme (ICE)," <u>Chem. Biol.</u> , 4:149-155 (1997).
	Rodriguez et al., "Dark is a <i>Drosophila</i> homologue of Apaf-1/CED-4 and functions in an evolutionarily conserved death pathway," <u>Nature Cell Biol.</u> 1:272-279 (1999).
	Rothe et al., "The TNFR2-TRAF Signaling Complex Contains Two Novel Proteins Related to Baculoviral Inhibitor of Apoptosis Proteins," <u>Cell</u> 83:1243-1252 (1995).
	Rotonda et al., "The three-dimensional structure of apopain/CPP32, a key mediator of apoptosis," <u>Nature Struc. Biol.</u> 3:619-625 (1996).
	Saleh et al., "Cytochrome c and dATP-mediated Oligomerization of Apaf-1 Is a Prerequisite for Procaspase-9 Activation," <u>J. Biol. Chem.</u> 274:17941-17945 (1999).
	Schwarze et al., "In Vivo Protein Transduction: Delivery of a Biologically Active Protein into the Mouse," <u>Science</u> 285:1569-1572 (1999).
	Tatusova and Madden, "Blast 2 Sequences, a new tool for comparing protein and nucleotide sequences," <u>FEMS Microbiol Lett.</u> 174:247-250 (1999).
	Thome et al., "Identification of CARDIAK, a RIP-like kinase that associates with caspase-1," <u>Curr. Biol.</u> 8:885-888 (1998).

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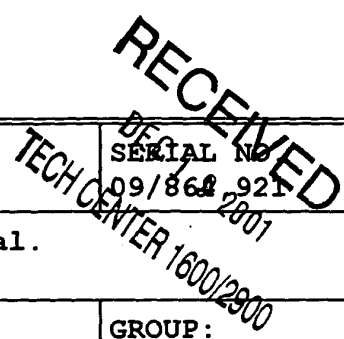
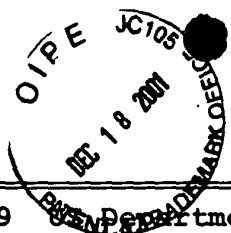


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	Thornberry, Nancy A., "Caspases: key mediators of apoptosis," <u>Chemistry and Biology</u> 5:R97-R103 (1998).
	Thornberry et al., "A novel heterodimeric cysteine protease is required for interleukin-1 beta processing in monocytes," <u>Nature</u> , 356:768-774 (1992).
	Thornberry and Molineaux, "Interleukin-1 beta converting enzyme: a novel cysteine protease required for IL-1 beta production and implicated in programmed cell death," <u>Protein Sci.</u> , 4:3-12 (1995).
	Tschopp et al., "Inhibition of Fas death signals by FLIPs," <u>Curr. Op. Immunol.</u> 10:552-558 (1998).
	van der Biezen and Jones, "The NB-ARC domain: a novel signalling [sic] motif shared by plant resistance gene products and regulators of cell death in animals," <u>Curr. Biol.</u> 8:R226-R227 (1998).
	Vocero-Akbani et al., "Killing HIV-infected cells by transduction with an HIV protease-activated caspase-3 protein," <u>Nature Med.</u> 5:29-33 (1999).
	Willis et al., "Bcl10 is Involved in t(1;14)(p22;q32) of MALT B Cell Lymphoma and Mutated in Multiple Tumor Types," <u>Cell</u> 96:35-45 (1999)
	Yuan and Horvitz, "The <i>Caenorhabditis elegans</i> cell death gene <i>ced-4</i> encodes a novel protein and is expressed during the period of extensive programmed cell death," <u>Development</u> 116:309-320 (1992).
	Zou et al., "Apaf-1, a Human Protein Homologous to <i>C. elegans</i> CED-4, Participates in Cytochrome c-Dependent Activation of Caspase-3," <u>Cell</u> 90:405-413 (1997).

EXAMINER	DATE CONSIDERED
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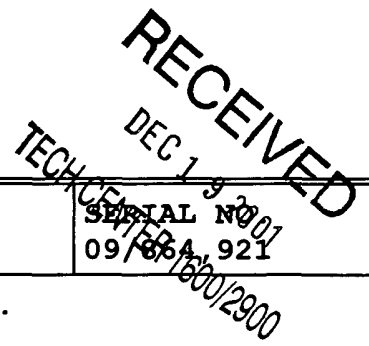
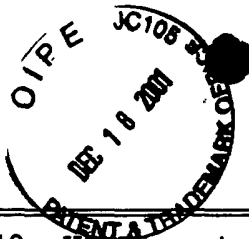


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	APPLICANT: Reed et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: May 23, 2001	GROUP: Unassigned

	Zou et al., "An APAF-1-Cytochrome c Multimeric Complex is a Functional Apoptosome that Activates Procaspase-9," <u>J. Biol. Chem.</u> 274:11549-11556 (1999)
	GenBank: AC008810
	GenBank: AC007728.
	GenBank: NT-002476
	GenBank: AC010968.
	GenBank: AP001153
	GenBank: AC022468
	GenBank: AP000799 (withdrawn)
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